

INTERNATIONAL SEARCH REPORT

Rec'd.

PTO

03 JUN 2005

International Application No.

PCT/EP 03/14548

537539

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E04F15/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E04F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 787 027 A (ALEX WASLEFF) 30 December 1930 (1930-12-30) the whole document	1,2,7, 10,11, 23, 26-28,34
Y		4,12-15, 17,24
X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 656 (M-1521), 6 December 1993 (1993-12-06) -& JP 05 214802 A (TOSUTEMU UTSUDO WAAKU KK), 24 August 1993 (1993-08-24) abstract	1,2,7, 10,11, 23,24, 28,34
A	---	29-31
	-/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

25 May 2004

Date of mailing of the International search report

04/06/2004

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C/(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 015 813 A (NIELSEN HERMAN C) 1 October 1935 (1935-10-01) page 1, right-hand column, line 11 -page 2, right-hand column, line 12; figures 1-5	1, 17, 23, 28, 34
Y	---	26
A	---	7, 10
Y	DE 202 07 021 U (BERG & BERG AB KALLINGE) 19 September 2002 (2002-09-19) page 2, line 1 -page 4, line 29; figures 1-6	4, 26
A	---	1, 2
Y	US 5 117 603 A (WEINTRAUB FRED I) 2 June 1992 (1992-06-02) column 3, line 9 -column 5, line 44; figures 1-8	12-15, 17, 24
A	---	1, 2, 5-7, 11, 23, 26-31
P, X	WO 03/025307 A (PERVAN TONY ; PERVAN DARKO (SE); VALINGE ALUMINIUM AB (SE)) 27 March 2003 (2003-03-27) page 12, line 36 -page 19, line 37 page 21, line 17 -page 25, line 134; figures 4A-13D ----	1, 2, 4-12, 15-17, 23, 26-32

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14548

Patent document cited in search report		Publication date	Patent family member(s)			Publication date
US 1787027	A	30-12-1930	NONE			
JP 05214802	A	24-08-1993	NONE			
US 2015813	A	01-10-1935	NONE			
DE 20207021	U	19-09-2002	DE	20207021 U1		19-09-2002
			EP	1338722 A1		27-08-2003
			US	2003205017 A1		06-11-2003
US 5117603	A	02-06-1992	NONE			
WO 03025307	A	27-03-2003	SE	0103130 A		21-03-2003
			WO	03025307 A1		27-03-2003
			US	2003101674 A1		05-06-2003